

Section 1. Registration Information

Source Identification

Facility Name:	Tempe Distribution Center
Parent Company #1 Name:	Safeway Inc.
Parent Company #2 Name:	

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	
Receipt Date:	11-Jun-2009
Postmark Date:	11-Jun-2009
Next Due Date:	11-Jun-2014
Completeness Check Date:	15-Apr-2011
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0006 2148
Other EPA Systems Facility ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	167242775
Parent Company #1 DUNS:	9137209
Parent Company #2 DUNS:	9137209

Facility Location Address

Street 1:	1115 W. Alameda Dr.
Street 2:	
City:	Tempe
State:	ARIZONA
ZIP:	85282
ZIP4:	3307
County:	MARICOPA

Facility Latitude and Longitude

Latitude (decimal):	33.399417
Longitude (decimal):	-111.956028
Lat/Long Method:	Interpolation - Digital map source (TIGER)
Lat/Long Description:	Storage Tank
Horizontal Accuracy Measure:	100
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	

Owner or Operator

Operator Name:	Safeway,Inc (Environmental Affairs)
Operator Phone:	(925) 226-5845

Mailing Address

Operator Street 1:	5918 Stoneridge Mall Road
Operator Street 2:	
Operator City:	Pleasanton
Operator State:	CALIFORNIA
Operator ZIP:	94588
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Ron Dodd
RMP Title of Person or Position:	Distribution Center Director
RMP E-mail Address:	

Emergency Contact

Emergency Contact Name:	Ron Dodd
Emergency Contact Title:	Distribution Center Director
Emergency Contact Phone:	(480) 894-4302
Emergency Contact 24-Hour Phone:	(480) 518-3903
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	ron.dodd@safeway.com

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	
Facility or Parent Company WWW Homepage Address:	www.safeway.com

Local Emergency Planning Committee

LEPC:	Maricopa County LEPC
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	600
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes
CAA Title V:	
Air Operating Permit ID:	

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	01-Mar-1999
Last Safety Inspection Performed By an External Agency:	OSHA

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:	Tracer ES&T
Preparer Phone:	(760) 744-9611
Preparer Street 1:	970 Los Vallecitos Boulevard
Preparer Street 2:	Suite 100
Preparer City:	San Marcos
Preparer State:	CALIFORNIA
Preparer ZIP:	92069
Preparer ZIP4:	
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.
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Process Chemicals

Process ID:	1000006521
Description:	Refrigeration
Process Chemical ID:	1000007343
Program Level:	Program Level 3 process
Chemical Name:	Ammonia (anhydrous)
CAS Number:	7664-41-7
Quantity (lbs):	45575
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	1000006521
Process NAICS ID:	1000006707
Program Level:	Program Level 3 process
NAICS Code:	49312
NAICS Description:	Refrigerated Warehousing and Storage

Section 2. Toxics: Worst Case

Toxic Worst ID: 1000005438

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP Guidance for Ammonia Refrigeration Reference Tables or Equations
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

Dikes:	
Enclosures:	Yes
Berms:	
Drains:	
Sumps:	
Other Type:	

Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000006032

Percent Weight:

Physical State:

Model Used:

Wind Speed (m/sec):

Atmospheric Stability Class:

Topography:

Gas liquified by pressure

EPA's RMP Guidance for Ammonia Refrigeration
Reference Tables or Equations

3.0

D

Urban

Passive Mitigation Considered

Dikes:

Enclosures:

Berms:

Drains:

Sumps:

Other Type:

Active Mitigation Considered

Sprinkler System:

Deluge System:

Water Curtain:

Neutralization:

Excess Flow Valve:

Flares:

Scrubbers:

Emergency Shutdown:

Other Type:

Yes

Manual remote isolation

Section 4. Flammables: Worst Case

No records found.

Section 5. Flammables: Alternative Release

No records found.

Section 6. Accident History

Accident History ID: 1000004034

Date of Accident:	01-Oct-2005
Time Accident Began (HHMM):	2006
NAICS Code of Process Involved:	48411
NAICS Description:	General Freight Trucking, Local
Release Duration:	000 Hours 15 Minutes

Release Event

Gas Release:	Yes
Liquid Spill/Evaporation:	
Fire:	
Explosion:	
Uncontrolled/Runaway Reaction:	

Release Source

Storage Vessel:	
Piping:	
Process Vessel:	
Transfer Hose:	
Valve:	
Pump:	Yes
Joint:	
Other Release Source:	header

Weather Conditions at the Time of Event

Wind Speed:	
Units:	
Direction:	
Temperature:	
Atmospheric Stability Class:	
Precipitation Present:	
Unknown Weather Conditions:	Yes

On-Site Impacts

Employee or Contractor Deaths:	0
Public Responder Deaths:	0
Public Deaths:	0
Employee or Contractor Injuries:	0
Public Responder Injuries:	0
Public Injuries:	0
On-Site Property Damage (\$):	0

Known Off-Site Impacts

Deaths:	0
Hospitalization:	0
Other Medical Treatments:	0
Evacuated:	0

Sheltered-in-Place:	0
Off-Site Property Damage (\$):	0

Environmental Damage

Fish or Animal Kills:
Tree, Lawn, Shrub, or Crop Damage:
Water Contamination:
Soil Contamination:
Other Environmental Damage:

Initiating Event

Initiating Event:	Equipment Failure
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Contributing Factors

Equipment Failure:	
Human Error:	
Improper Procedures:	
Overpressurization:	Yes
Upset Condition:	Yes
By-Pass Condition:	
Maintenance Activity/Inactivity:	
Process Design Failure:	
Unsuitable Equipment:	
Unusual Weather Condition:	
Management Error:	
Other Contributing Factor:	

Off-Site Responders Notified

Off-Site Responders Notified:	Notified Only
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Changes Introduced as a Result of the Accident

Improved or Upgraded Equipment:	
Revised Maintenance:	
Revised Training:	Yes
Revised Operating Procedures:	
New Process Controls:	Yes
New Mitigation Systems:	
Revised Emergency Response Plan:	
Changed Process:	
Reduced Inventory:	
None:	
Other Changes Introduced:	

Confidential Business Information

CBI Claimed:

Chemicals in Accident History

Accident Chemical ID:	1000003128
Quantity Released (lbs):	100
Percent Weight:	100.0
Chemical Name:	Ammonia (anhydrous)
CAS Number:	7664-41-7
Flammable/Toxic:	Toxic

Section 7. Program Level 3

Description

Ammonia Refrigerated Warehousing

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000005846
Chemical Name:	Ammonia (anhydrous)
Flammable/Toxic:	Toxic
CAS Number:	7664-41-7

Prevention Program Level 3 ID:	1000004999
NAICS Code:	49312

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	08-Apr-2009
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	04-Apr-2009
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The Technique Used

What If:	Yes
Checklist:	
What If/Checklist:	Yes
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	30-Jun-2009

Major Hazards Identified

Toxic Release:	Yes
Fire:	Yes
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	Yes
Overfilling:	Yes
Contamination:	Yes
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	Yes
Earthquake:	
Floods (Flood Plain):	

Tornado:
Hurricanes:
Other Major Hazard Identified:

Process Controls in Use

Vents:
Relief Valves: Yes
Check Valves: Yes
Scrubbers:
Flares:
Manual Shutoffs: Yes
Automatic Shutoffs: Yes
Interlocks: Yes
Alarms and Procedures: Yes
Keyed Bypass:
Emergency Air Supply:
Emergency Power:
Backup Pump: Yes
Grounding Equipment:
Inhibitor Addition:
Rupture Disks:
Excess Flow Device: Yes
Quench System:
Purge System: Yes
None:
Other Process Control in Use:

Mitigation Systems in Use

Sprinkler System: Yes
Dikes:
Fire Walls: Yes
Blast Walls:
Deluge System:
Water Curtain:
Enclosure:
Neutralization:
None:
Other Mitigation System in Use:

Monitoring/Detection Systems in Use

Process Area Detectors: Yes
Perimeter Monitors:
None:
Other Monitoring/Detection System in Use:

Changes Since Last PHA Update

Reduction in Chemical Inventory:
Increase in Chemical Inventory:
Change Process Parameters:
Installation of Process Controls: Yes
Installation of Process Detection Systems: Yes

Installation of Perimeter Monitoring Systems:
Installation of Mitigation Systems:
None Recommended:
None:
Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 10-Feb-2009

Training

Training Revision Date (The date of the most recent review or revision of training programs): 10-Feb-2009

The Type of Training Provided

Classroom: Yes
On the Job: Yes
Other Training:

The Type of Competency Testing Used

Written Tests:
Oral Tests: Yes
Demonstration:
Observation: Yes
Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 11-Feb-2009

Equipment Inspection Date (The date of the most recent equipment inspection or test): 11-Feb-2009

Equipment Tested (Equipment most recently inspected or tested): Compressor, pump

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 09-Oct-2008

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 11-Feb-2009

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 11-Feb-2009

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 11-Feb-2009

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 30-May-2009

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)): 01-Oct-2005

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation): 01-Oct-2005

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 11-Feb-2009

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 11-Feb-2009

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 11-Feb-2009

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 10-Feb-2009

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?):

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?):

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?):

Healthcare (Does facility's ER plan include information on emergency health care?):

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan):

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees):

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Tempe Fire Department

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (480) 858-7200

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120:

Clean Water Regulations at 40 CFR 112:

RCRA Regulations at CFR 264, 265, and 279.52:

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

Accidental Release Prevention and Emergency Response Policies

The management and staff of the Tempe Distribution Center are committed to operating the Distribution Center with the highest regard for the safety of the public, Distribution Center personnel, and the environment. To ensure the safety of the public, Distribution Center personnel, and the environment, the Distribution Center has implemented a management system that integrates the elements of OSHA's Process Safety Management (PSM) standard, 29 CFR 1910.119 and EPA's Risk Management Program (RMP) rule, 40 CFR part 68. The policies and procedures integrated under the Distribution Center's management system specifically address prevention of the release of anhydrous ammonia, and emergency response to an accidental release of ammonia.

Description of Processes, and Regulated Substances Handled at the Tempe Distribution Center

The Tempe Distribution Center operates several refrigerated warehouses and freezers. Anhydrous ammonia is used as a refrigerant in the mechanical compression refrigeration system at the Tempe Distribution Center. Ammonia is handled in a closed-loop process that consists of the following general stages: Liquid storage; Expansion; Evaporation; Compression; and Condensation. The Tempe Milk Plant is served by the same ammonia refrigeration system.

Mechanical refrigeration is a physical process, rather than a chemical process: the ammonia undergoes no chemical changes in the refrigeration cycle. Heat is removed from the product being refrigerated or frozen as ammonia changes phase from liquid to vapor. By reliquefying the ammonia vapor, the ammonia can be used continuously in the refrigeration cycle.

The ammonia refrigeration system is the only process at the Tempe Distribution Center which is subject to the EPA RMP rule (and the OSHA PSM standard). Anhydrous ammonia is the only regulated substance handled in the ammonia refrigeration system.

At ambient temperature and pressure, ammonia is a colorless gas with a characteristic, irritating odor. Ammonia is highly soluble in water. Ammonia is the third highest-volume chemical produced in the United States. The chemical formula of ammonia is NH_3 . Anhydrous ammonia is handled both as a pressurized liquid at ambient temperature and as a refrigerated liquid at or below ambient pressure within the Tempe Distribution Center refrigeration system.

Accidental Release Prevention Program

The Distribution Center's accidental release prevention program consists of the following elements: Process Safety Information; Process Hazard Analysis; Operating Procedures; Training; Contractors; Pre-Startup Safety Review; Mechanical Integrity; Hot Work Permit; Management of Change; Incident Investigation; Compliance Audits; and Employee Participation. The purpose and scope of each element is briefly described below.

Process Safety Information - The purpose of compiling the required Process Safety Information is to enable Distribution Center personnel who work with the ammonia refrigeration system to identify and understand the hazards posed by ammonia refrigeration. The Distribution Center's Process Safety Information procedure addresses: Information requirements pertaining to the hazards of ammonia; Information requirements pertaining to the technology of the process; Information requirements pertaining to the equipment in the process; and Process Safety Information accessibility requirements.

Process Hazard Analysis - The purpose of the Distribution Center's PHA procedure is to describe the method for conducting process hazard analyses of the Distribution Center's ammonia refrigeration system. The Distribution Center's PHA procedure addresses: PHA methodology; PHA scope; PHA team requirements; Employee participation requirements; System established to promptly address the PHA team's recommendations; PHA update and revalidation requirements; PHA report retention requirements; and PHA report distribution requirements.

Operating Procedures - The purpose of the Distribution Center's Operating Procedure policy is to provide a method for developing and implementing written operating procedures to give clear instructions for safely conducting activities associated with the Distribution Center's ammonia refrigeration system. The Distribution Center's Operating Procedure policy addresses: Development and implementation of written procedures to provide clear instructions for safely conducting activities involved in each covered process; Development and documentation of process operating limits; Development and documentation of process safety and

health considerations; Operating procedure accessibility requirements; Operating procedure review requirements; and Safe work practice requirements for employees and contractors to provide for control of hazards during operations.

Training - The purpose of the Distribution Center's Training procedure is to ensure that personnel involved in operating the Distribution Center's ammonia refrigeration system have received and understood training in: an overview of the Distribution Center's ammonia refrigeration system; the operating procedures required in the Operating Procedures element of the Distribution Center's PSM program; safety and health hazards associated with the Distribution Center's ammonia refrigeration system; and applicable safe work practices. The Distribution Center's Training procedure addresses: Initial training requirements; Refresher training requirements; Documentation of employee training; and Testing to ensure that required training has been understood.

Contractors - The purpose of the Distribution Center's Contractors procedure is to establish a method for ensuring that all contractors are adequately trained to perform work on or near the Distribution Center's ammonia refrigeration system. The Distribution Center's Contractors procedure addresses the responsibilities of the Distribution Center and the contract employer with respect to ensuring the safety of contractors working on or near the Distribution Center's ammonia refrigeration system.

Pre-Startup Safety Review - The purpose of the Distribution Center's Pre-Startup Safety Review procedure is to ensure that new or modified facilities that handle regulated substances are safely started up. The Distribution Center's Pre-Startup Safety Review procedure (PSSR) addresses: PSSR Checklist completion prior to startup of new or modified facilities; The method for determining when a PSSR shall be performed, and PSSR Team selection; The system to ensure that new Process Safety Information has been compiled; The system to ensure that all materials and construction are in accordance with design specifications; The system to ensure that all safety, operating, maintenance, and emergency procedures are in place and adequate; The system to ensure that a Process Hazard Analysis has been performed for new facilities, and that recommendations have been addressed prior to startup; The system to ensure that Management of Change requirements are met prior to start-up of modified facilities; The system to ensure that operations and maintenance employees are trained prior to start-up; and Documentation of the Pre-Start Safety Review.

Mechanical Integrity - The purpose of the Distribution Center's Mechanical Integrity policy is to establish the requirements of the Mechanical Integrity program at the Tempe Distribution Center. The purpose of the Mechanical Integrity program is to ensure that process equipment used to handle anhydrous ammonia is designed, constructed, and maintained to minimize the risk of accidental release. The Distribution Center's Mechanical Integrity program addresses the following activities as they relate to the Distribution Center's ammonia refrigeration system: Training in the Distribution Center's ammonia refrigeration system and its hazards, and in the safe conduct of maintenance activities; Inspection and testing; Correcting deficiencies in equipment; and Quality assurance in fabrication, installation, and maintenance.

Hot Work Permits - The purpose of the Distribution Center's Hot Work Permit procedure is to define how Hot Work Permits are issued and to ensure compliance with permit requirements before and during hot work. The Distribution Center's Hot Work Permit procedure addresses: General requirements; The Hot Work Permit; Authorization of hot work; Fire prevention precautions; and Fire watchers.

Management of Change - The purpose of the Distribution Center's Management of Change procedure is to establish the Distribution Center's requirements for managing changes to the Distribution Center's ammonia refrigeration system. This procedure provides direction in identifying, reviewing, and authorizing process changes prior to their implementation in order to minimize their potential impact on safety and health. The Distribution Center's Management of Change Procedure addresses the following: Identifying process changes; Reviewing process changes; Training necessitated by process changes; Updating Process Safety Information; Updating operating procedures; and Authorizing process changes. Specific actions included within reviewing process changes are: documenting the technical basis for the proposed change; assessing the impact of the proposed change on safety and health; modifying operating procedures, as necessary; and documenting and tracking the intended duration of the change (temporary vs. permanent).

Incident Investigation - The purpose of the Distribution Center's Incident Investigation procedure is to provide a method for reporting, investigating, and preventing reoccurrence of incidents that result in or could reasonably have resulted in a catastrophic release of ammonia. The Distribution Center's Incident Investigation procedure addresses: Reporting incidents; The procedure for initiating an incident investigation; The establishment of an Incident Investigation Team, and requirements for the selection of Team members; Investigating the incident; Preparation of the Incident Investigation Report and the minimum requirements of the Report;

The system established to promptly address and resolve the report findings and recommendations; and The method for reviewing the findings of the Incident Investigation with all operating, maintenance, and other affected personnel (including contract employees) whose work assignments are relevant to the findings.

Compliance Audits - The purpose of the Distribution Center's Compliance Audits procedure is to establish the requirements for an audit that verifies that the Distribution Center is meeting the requirements of OSHA's Process Safety Management (PSM) standard, and EPA's Risk Management Program rule. The Distribution Center's Compliance Audits procedure requires triennial review of the Distribution Center's PSM program/RMP Prevention Program procedure documents, and evaluation of the implementation of these procedures by conducting records reviews, employee interviews, and field inspections. The Distribution Center's Compliance Audit procedure also requires that recommendations be formulated to resolve any identified deficiencies. The Distribution Center's Compliance Audits procedure addresses: Pre-audit activities; Conduct of the PSM program/RMP Prevention Program compliance audit; and Post-audit activities, including taking action to resolve any identified deficiencies.

Employee Participation - The purpose of the Distribution Center's Employee Participation procedure is to document the method of actively involving Distribution Center employees in the development and conduct of the Distribution Center's Process Safety Management elements. The purpose of involving employees in the development and conduct of the Distribution Center's PSM elements is to foster commitment to the enhancement of process safety. The Distribution Center's Employee Participation procedure addresses: The method of consulting employees (and their representatives) on the conduct and development of each element in the Distribution Center's process safety management program; and The method for providing employees (and their representatives) access to all process safety management documents and records.

Five-year Accident History

Over the past five years, the Tempe Distribution Center has not had any ammonia releases that resulted in deaths, injuries, property damage, environmental damage, or offsite evacuations.

Emergency Response Program

The Distribution Center has an emergency action plan that addresses the following: Evacuation; Emergency release notification; and First aid/medical management. The Distribution Center's emergency response program is coordinated with the local fire department.

All Distribution Center employees receive training in the emergency action plan. The local fire department is invited to participate in the Distribution Center's emergency action plan drills, in order to familiarize fire department personnel with the Distribution Center's process and emergency procedures.

Planned Changes to Improve Safety

The Distribution Center is subject to the PSM standard and the RMP rule. The Distribution Center has established PSM/prevention program elements. The program elements have been integrated into a management system framework, in accordance with internationally recognized principles of total quality management. The management system is designed to ensure implementation of each program element, in compliance with the OSHA PSM standard, and the EPA RMP rule. Authority, responsibility, and accountability are clearly and specifically assigned to Distribution Center management, supervision, and staff. The means of documenting compliance have been improved for each prevention program element.